Index of Claims

| Application N | lo. |
|---------------|-----|

10/748,040

Examiner

Michael C. Heck

Applicant(s)

VERDI ET AL.

Art Unit

3623

| √ | Rejected |
|---|----------|
| = | Allowed  |

|   | ı | (Through numeral)<br>Cancelled |
|---|---|--------------------------------|
| Ì | ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| E       | Clain  | n         |          |                 |          | С        | Date   | •        |          |          |  |      | Cla          | im  |                 |          | _               | Da  | te      |                               |                  |               | CI            | aim     |          |  |                |            | ate      | ,                 |          |               |               |
|---|--|-----------|----------|-----------------|----------|----------|--|----------|----------|----------|--|------|--------------|-----|-----------------|----------|-----------------|---|---------|-------------------------------|------------------|---------------|---------------|---------|----------|--|----------------|------------|----------|-------------------|----------|---------------|---------------|
| 1     \( \frac{1}{2} \) = -     551     101     102     3     -     -     552     103     -     -     -     553     103     -     -     -     105     554     104     -   |  |           |          |                 |          |          |  |          |          |          |  |      |              | al  |                 |          |                 |   |         |                               |                  |               |               | <u></u> |          |  |                |            | - 1      | ļ                 |          |               | - 1           |
| 1     \( \frac{1}{2} \) = -     551     101     102     3     -     -     552     103     -     -     -     553     103     -     -     -     105     554     104     -   | la l   | <u>,</u>  | 8        |                 | ŀ        |          |  | - 1      |          |          |  |      | nal          | iĝ  |                 | -        |                 |   |         |                               |                  |               | <u>na</u>     | Ë       |          |  |                |            |          |                   |          |               |               |
| 1     \( \frac{1}{2} \) = -     551     101     102     3     -     -     552     103     -     -     -     553     103     -     -     -     105     554     104     -   | ا تقا  | ξĺ        | 2/2      |                 | -        |          |  |          |          |          |  |      | 证            | Ç   |                 | 1        |                 |   |         |                               |                  |               | 证             | Š       |          |  |                |            |          |                   |          |               |               |
| 22  |  |           |          |                 |          |          |  |          |          |          |  |      |              |     |                 |          | _               |   |         |                               |                  | _             |               | L       | •        |  |                | $\Box$     | _        |                   | _        | _             | _             |
| \$\frac{4}{4} -   |  |           | √        | $\perp$         |          |          |  |          |          |          |  |      |              | 51  | Ц               | _        | _               |   | $\perp$ | <u> </u>                      | ot               | _             |               |         |          |  |                | _          | _        |                   | _        | _             | 4             |
| 104   |  | 2         |          | $\perp$         | _        | _        |  | _        |          |          |  |      |              |     |                 |          | _ .             |   | _       | ╄                             |                  | _:::::        |               | 102     |          |  |                | _          | _        |                   | _        | _             | _             |
| 105   |  | 3         |          |                 | _        | _        |  | _        |          |          |  |      |              | 53  |                 |          | _               | _   | $\perp$ | $oldsymbol{oldsymbol{\perp}}$ |                  | _             |               | 103     |          |  |                | _          | _        |                   | _        | _             | ᅴ             |
| 66  | -  | 4         |          | $\Box$          | _        | _        |  |          |          |          |  |      |              | 54  |                 | _        |                 |   | 1       | _                             | <u> </u>         | 4             |               | 104     |          | _  |                |            |          | _                 | $\dashv$ |               | $\dashv$      |
| 107   |  |           | _        | _               | _        | _        | _  |          |          |          |  |      |              | 55  |                 |          | _               |   | _       |                               | <u> </u>         | 4::::         |               | 105     | _        |  | Ш              |            |          | _                 |          |               |               |
| Section   108   109   |  | <u>6-</u> |          | $\perp$         | _        | _        |  |          |          |          |  |      |              | 56  | Щ               | _        | _               | _   | _       | ╄                             |                  | 4             |               | 106     |          |  | Н              |            |          |                   | -        | $\dashv$      | $\dashv$      |
| 109   |  |           |          |                 | _        | _        | $\Box$   |          |          |          |  |      |              |     | Щ               |          | 4               | _   | +       | $\vdash$                      | <b> </b>  -      | 4::::         |               |         | _        |  | Н              |            |          |                   |          | -             |               |
| 140   |  |           |          |                 |          | _        | _  |          |          |          | Ц  |      |              | 58  |                 |          | -               | _   | $\bot$  | -                             | <b>  -</b>       | 4             |               | 108     |          |  | Н              | _          | -        |                   | -        | $\dashv$      | $\dashv$      |
| 11  |  |           | _        |                 |          | _        | _  |          |          |          | $\Box$   |      |              | 59  | Ш               | -        | _               | +   | $\bot$  | -                             |                  | 4             |               | 109     | _        | L  | $\sqcup$       |            | $\vdash$ |                   | -        | $\dashv$      | 괵             |
| 142   |  |           |          |                 |          | _        |  |          |          |          | _  |      |              | 60  | Ш               | _        | _               | $\perp$   | $\bot$  | -                             | $\vdash$         | 4             |               |         | L        | H  | -              |            |          |                   | $\dashv$ |               |               |
| 13  |  | 11        |          | $\sqcup$        | _        | _        | $\sqcup$   |          | Ш        |          | Ш  |      |              |     | $\sqcup$        | _        | _               | +   | +       | -                             | $\vdash$         | 4::::         |               | 111     | $\vdash$ | -  |                |            |          |                   |          | $\dashv$      | $\dashv$      |
| 14   V  | -  | 12        |          | $\sqcup$        | 4        | _        | <u> </u>   |          | Ш        |          | Щ  |      |              | 62  |                 | $\dashv$ | +               | +   | +-      | +-                            | $\vdash \vdash$  | 4             |               | 112     | <b>—</b> | -  | Н              |            | $\dashv$ | $\vdash$          |          | $\dashv$      | $\dashv$      |
| 15  |  |           |          |                 | _        | _        | Ш  |          | Ш        |          | $\sqcup$   |      |              |     |                 | $\dashv$ | +               | -   | - -     | -                             | $\vdash$         | -             |               | 113     |          | ├—   | Н              |            | $\vdash$ |                   | $\dashv$ | $\dashv$      | $\dashv$      |
| 16    V   |  |           |          | $\dashv$        | _        |          |  | Щ        | $\Box$   |          |  |      |              | 64  | Н               | _        | +               | -   | +       | +                             | ⊢-               | -             |               | 114     | $\vdash$ | -  | $\vdash\vdash$ | $\vdash$   |          | $\vdash$          | $\dashv$ | $\dashv$      | $\dashv$      |
| 17  |  |           |          | $\sqcup$        | _        | _        | Щ  | $\Box$   | Ш        | Щ        | Ш  |      |              |     | $\vdash \vdash$ | -        |                 | +   | +       | +                             | $\vdash \vdash$  | -             |               | 115     | $\vdash$ |  | $\vdash$       | -          | -        | $\vdash$          | $\dashv$ | $\dashv$      | $\dashv$      |
| 18  |  |           |          | $\Box$          |          |          |  |          | Ш        | _        | Н  |      |              | 66  | Н               | $\dashv$ |                 | -   | -       | ┿                             |                  | -             |               | 110     |          | $\vdash$   | $\vdash$       | _          |          |                   | -        | -             |               |
| 19   0     19   0     19   10   10   1  |  |           |          | $\vdash \vdash$ | _        | _        | Ш  | Ш        | Ш        |          | $\vdash$   |      | <u> </u>     |     | $\vdash \vdash$ | _        | -               | +   | +       | +                             | <b>├</b> ─├      | - ::::        | <u> </u>      | 117     | -        | ⊢  | ├-             |            | $\vdash$ | $\vdash$          | $\dashv$ |               | $\dashv$      |
| To   To   To   To   To   To   To   To   |  |           |          | $\dashv$        |          | _        |  |          |          |          | Н  |      |              | 68  | Н               | $\dashv$ | -+              |   | +       | ┰                             |                  | -             |               | 110     |          | ⊢  |                |            |          |                   | $\dashv$ | $\dashv$      | $\vdash$      |
| 1   |  |           | ۰,       | $\dashv$        | -        | _        |  |          |          | $\vdash$ | _  |      | ├─           | 69  | Н               | -        |                 | +   | +       | +-                            |                  | - ::::        | <u> </u>      | 119     |          | ┢  | -              | $\vdash$   |          |                   | -        |               | -             |
| 122   |  |           |          | $\dashv$        | 4        |          |  |          | $\vdash$ |          |  |      | <u> </u>     | 70  | H               | -        | -               | +   | +       | ┼                             |                  | -             | <del></del> - | 120     |          |  | $\vdash$       | $\vdash$   |          |                   | $\vdash$ | $\dashv$      | $\dashv$      |
| 23  |  |           |          | $\vdash$        | $\dashv$ | _        |  |          |          | _        |  |      |              |     | Н               | $\dashv$ | -               | +   | +       |                               |                  | -             | <del> </del>  | 121     | ⊢        |  | $\vdash$       | H          |          |                   | $\vdash$ | $\dashv$      | $\dashv$      |
| 124   125   125   126   126   126   127   127   127   128 |  |           |          | $\vdash$        | $\dashv$ |          | <u> </u>   |          |          |          |  |      |              | 72  | Н               | -        |                 | +   | 十       |                               | $\vdash$         | -             | ļ             | 122     | ⊢        | ├  |                | $\vdash$   |          | -                 | $\dashv$ | $\dashv$      | $\vdash$      |
| 75  |  |           | 0        | $\vdash$        | $\dashv$ |          | H  |          |          |          | $\vdash$   |      | <u> </u>     | 74  | $\vdash$        | _+       | +               | -   | +       |                               | $\vdash$         | -             |               | 123     | ├        | <del> </del>                                     |                | $\vdash$   | -        |                   | $\dashv$ |               | $\vdash$      |
| 26     √     126     127     127     127     128     128     128     128     128     129     129     129     129     129     130     130     130     130     131     131     131     131     131     131     131     132     132     132     132     133  |  |           |          | $\vdash$        | $\dashv$ | _        | -  |          |          | _        |  |      | -            | 75  | Н               | -        | -               | +   | +       | ┼─                            | $\vdash$         | -             |               | 125     | ⊢        | -  | $\vdash$       | ┢          | H        |                   |          |               | $\vdash$      |
| 27     28     77     128     128     128     128     128     128     128     129     129     129     129     129     130     130     130     130     131     131     131     131     131     132     132     132     132     133  |  |           | . T      | $\vdash$        | _        | !        |  |          |          |          |  |      | <u> </u>     | 76  | Н               | -        | -+              | +   | +       | -                             | $\vdash$         | -             | <b> </b> -    | 126     |          |  |                |            | H        |                   |          |               | $\overline{}$ |
| 28     78     128       29     79     129       30     80     130       31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     95     145       46     96     146       47     97     147       48     98     148       49     99     149   |  |           | V        | $\dashv$        | -        |          | $\vdash$   |          |          |          |  |      | <u> </u>     | 77  |                 | -        | $\dashv$        | +   | +       | ┼┈                            | H                | $\dashv$      |               | 127     | ┢┈       | ╁─   | $\vdash$       | _          | $\vdash$ |                   |          |               | $\Box$        |
| 29   79   129     30   80   130     31   81   131     32   82   132     33   133   133     34   84   134     35   85   135     36   86   136     37   87   137     38   83   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   145     46   96   146     47   97   147     48   98   148     49   99   1449   |  |           |          | H               | $\dashv$ |          |  | $\vdash$ | $\vdash$ | -        |  |      | <del> </del> | 70  | $\vdash$        | $\dashv$ | $\dashv$        | +   | ┿       |                               | H                | -             |               | 128     | ┢        | $\vdash$   | H              |            | -        | -                 | $\dashv$ |               | $\neg$        |
| 30  |  |           |          | $\vdash$        | $\dashv$ |          |  |          | -        |          |  |      | ├            |     | $\vdash$        | $\dashv$ | $\dashv$        | +   | - -     | +                             | $\vdash$         | -             |               | 129     | ╁        | t  |                |            | -        | $\vdash$          | $\vdash$ |               | Н             |
| 31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     95     145       46     96     146       47     97     147       48     98     148       49     99     149   |  |           |          |                 |          |          |  | -        | $\vdash$ | _        | -  |      |              | 80  | -               | $\vdash$ | $\dashv$        | -+-   | +       | +                             | ╁╌┼╴             | $\dashv$ :::: |               |         | $\vdash$ | <del>                                     </del> | 一              | _          | -        |                   | $\dashv$ | $\vdash$      | Н             |
| 32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |  |           |          | -               | -        |          | -  | -        | H        | -        | _  |      | <u> </u>     |     |                 | H        | _               |   | +       | +                             | +                | -             |               | 131     | ╁        | <del>                                     </del> | H              | $\vdash$   |          |                   |          | $\neg$        | П             |
| 33   83   133   134     34   84   134   134     35   85   135   135     36   86   136   137     38   87   137   137     38   88   138   139     40   90   140   140     41   91   141   141     42   92   142   142     43   93   143   143     44   94   144   144     45   95   145   146     46   96   146   147     48   98   148   148     49   99   149   149   |  |           |          | $\vdash$        | $\dashv$ |          | -  | $\vdash$ | $\vdash$ | $\vdash$ | -  |      |              | 82  | Н               | $\vdash$ | -               | $\dashv$  | +       | +                             | <del>     </del> | 7             |               |         | t        | t  | 一              | $\vdash$   | ┪        | Т                 | H        | $\neg$        | П             |
| 34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |  |           |          | $\vdash$        |          |          | <del> </del>                                     | $\vdash$ |          |          | -  |      | $\vdash$     |     | $\vdash$        | $\vdash$ | $\dashv$        | $\dashv$  | +       | +                             |                  | 7             |               | 133     | T        | t  | $\vdash$       | $\vdash$   | T        | Г                 | H        | $\neg$        | $\sqcap$      |
| 35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   | <del>                                     </del> | 34        |          | H               | -        | Н        | <del>  -  </del>                                 |          |          | $\vdash$ | <del>                                     </del> |      |              | 84  | $\vdash$        | $\vdash$ | $\dashv$        | +   | $\top$  | +                             | $\vdash$         | -             |               | 134     |          | Τ.   | П              |            | 1        | Г                 | П        | $\neg$        | П             |
| 36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |  |           | -        | $\vdash$        |          |          | _  |          | Г        | $\vdash$ | _  |      |              |     | 1               |          | $\dashv$        | +   | +       | $\top$                        |                  | 1:::          |               | 135     |          |  |                |            |          |                   | $\Box$   | $\sqcap$      | $\Box$        |
| 37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |  |           |          | H               |          | Н        |  | $\vdash$ | $\vdash$ | $\vdash$ | <del>                                     </del> |      |              |     |                 | $\Box$   | $\dashv$        | 十   | $\top$  | $\top$                        |                  | 7             |               | 136     | 1        |  |                |            | Ι        |                   | П        | $\overline{}$ | Г             |
| 38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |  | 37        |          | H               | _        | $\vdash$ | <del>                                     </del> | $\vdash$ |          |          | <del>                                     </del> |      |              | 87  | $\vdash$        | $\Box$   | $\dashv$        | _   | $\top$  | 1                             |                  |               |               | 137     | 1        | Π  |                |            | Γ        |                   | П        | $\overline{}$ |               |
| 39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |  |           |          | Н               | _        | -        |  | $\vdash$ |          | $\vdash$ | Г  |      |              |     |                 | $\Box$   | _               | $\top$  | Ť       |                               | TT               | 7:::          |               |         |          | Π  | Ī              |            | Γ        |                   | П        | $\overline{}$ | $\overline{}$ |
| 40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |  |           |          | $\vdash$        | _        | -        |  | $\vdash$ | $\vdash$ |          |  |      |              |     |                 |          | $\neg \uparrow$ | 十   | $\top$  | 1                             | $\Box$           | 7             |               | 139     | 1        | П  | П              |            |          |                   | П        | $\overline{}$ | $i^-$         |
| 41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |  | 40        | $\vdash$ | $\vdash$        |          |          |  | Г        | 1        |          |  |      |              | 90  | Т               | П        | $\neg$          | $\top$  | $\top$  |                               | $\sqcap$         | 7             |               | 140     |          |  |                |            |          |                   |          |               |               |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |  |           | $\vdash$ | $\Box$          |          |          |  | T        | Г        | $\top$   |  |      |              | 1   | T               |          | $\neg$          | 1   | 1       | 1                             | $\sqcap$         | 7             |               | 141     |          |  | Ī              |            |          |                   |          |               |               |
| 43 93   44 94   45 95   46 96   47 97   48 98   49 99   |  |           |          | П               |          |          |  | Π        | П        |          |  | :::: |              |     |                 |          | $\Box$          | _   |         |                               |                  |               |               | 142     |          |  |                |            |          | Ē                 |          |               |               |
| 44 94 144   45 95 145   46 96 146   47 97 147   48 98 148   49 99 149   |  |           |          | П               |          | Г        | Г  |          |          | П        | Γ  |      |              |     |                 |          |                 |   |         | Ι                             | $\Box T$         |               |               | 143     |          |  |                |            |          |                   |          |               |               |
| 45 95   46 96   47 97   48 98   49 99   |  |           |          |                 |          |          |  |          |          |          | Ľ  | ]    |              | 94  |                 |          |                 | ightharpoons                                      | $\int$  | $oxed{oxed}$                  |                  |               |               | 144     | П        |  | $\Box$         |            |          |                   |          |               |               |
| 46 96   47 97   48 98   49 148  |  |           |          |                 |          |          |  |          |          |          |  |      |              |     |                 |          |                 | $\Box$  | $\int$  | $\perp$                       | $\Box \Box$      | _]            |               | 145     | 匸        |  | 匚              |            | Ĺ        | Ш.                |          | _             |               |
| 47 97   48 98   49 99   |  |           |          |                 |          |          |  |          |          |          |  |      |              |     |                 |          |                 | $oxed{T}$   |         | $oxed{\Box}$                  | LT               |               |               | 146     | L        | 匚  |                | L          |          |                   |          |               |               |
| 48 98   49 148   149 149  |  |           |          | П               |          |          | Г  |          | Ì        |          | L  |      |              | 97  |                 |          |                 | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |         |                               |                  |               |               | 147     |          | 匚  | Ĺ              | Ĺ          |          |                   |          |               |               |
| 49 99 149   |  | 48        |          |                 |          |          |  | L        | L        |          |  |      |              |     |                 |          |                 | $oxed{\int}$                                      |         |                               |                  |               |               | 148     | $\Box$   |  |                |            | L        | $\overline{\Box}$ |          |               |               |
|   |  | 49        |          |                 |          |          |  |          |          |          |  |      |              |     |                 |          | $\Box$          |   |         | L                             |                  | _             |               | 149     |          |  |                | L          | <u> </u> | <u> </u>          | Ш        | <u>_</u>      | _             |
|   |  | 50        |          |                 |          |          |  |          |          |          |  | ]    |              | 100 |                 |          | $\Box$          | $\prod$   |         |                               | $\coprod$        | _]::::        |               | 150     |          |  |                | <u>L</u> _ | L        |                   |          |               | <u></u>       |